

## **ABSTRACT**

A system for monitoring at least one parameter of interest relating to a flow conduit having a through passage and a fluid flow therein comprises at least one measurement station coupled to the flow conduit for taking a measurement relating to the parameter of interest. An

5 interrogation device is adapted to move proximate the measurement station and to transmit a first signal to the measurement station, and to receive a second signal from the measurement station relating to the parameter of interest. The measurement station receives power from the first signal.